		E		TTERBE		NTENT	È	SS (S	La		COUNTS			RING A-3 FACE ELEVATION 598.3	VAT! EET.
	OTHER TESTS	SHEAR STRENGTH PSF		<u> </u>	LASTICITY INDEX	FIELD MOISTURE CONTEN	DAY DENSITY PCF	WATER LOSS (LUGEONS)	PERCENT	g o≇	BLOW GOL		•-		ELE (F
].			35	\$2	A =	0.3	L	*		Ш	37.6	SYMBO		DESCRIPTIONS BROWN SILTY FINE SAND WITH ORGANIC DEBRIS (HERY INOSE)
				_	_						14 ■	RIGH	SM	BROWN SILTY FINE SAND WITH ORGANIC DEBRIS (REDDISH-BROWN SAND WITH SOME SILT AND A TRA FINE ORGANIC DEBRIS (MEDIUM DEMSE) (EQUALITY FORMATION) GRADES TO GRAYISH-BROWN COLOR, CLEAN	
5			 	***************************************		\dagger	\vdash	\dagger	1		26			GRADES TO GRAFTER PROCESS	5 0
						1	1				32		SP	GRADES TO DENSE	59 0
						19.6	106	•			JE -			GRADES TO GRAY COLOR, VERY CLEAN	58
5											48 🖩				58
O			+			+	+	+			4V3" B		ML	DARK GRAY CLAYEY SILT WITH ABUNDANT SAND A DOLOMITE GRAYEL, OCCASIONAL COBBLE (HARD (WEDRON FORMATION)	, 57
5			-			19.5	5 110	0	1		50 ■		ML	GRAY FINE SANDY SILT WITH SOME CLAY, MICAC (MEDIUM STIFF TO STIFF)	EOUS
													141		57
30						7.5	5 129	9			74 🖺		sw	GRAY WELL GRADED SAND WITH TRACES OF SILT GRAVEL IN ZONES (VERY DEMSE) BROWNISH-GRAY FINE SAND WITH SOME SILT, CO	
35		-	+-			13.4	4 118	8	H		148 ■		SP	SAND AND GRAVEL IN ZONES (MEDIUM DENSE)	SIIT
10													SP	MICACEOUS, VERY POORLY COMSOLIDATED (VEI (RESIDUAL SOIL)	RÝ DÉNSE) —— <i>50</i>
										\dagger	1		LIGHT LAM CAR	J F BEDROCK (CARBONDALE FORMATION) GRAY SANDSTONE, FINE GRAINED, SILTY, MICAC HINATED BEDDING WITH OCCASIONAL PAPER THIN BONACEOUS PARTINGS; OCCASIONAL 35 - 459 FR	EGUS; —5
45									94	4 38	8		CONGL IRR	IERATELY WEATHERED OMERITIC ZONE WITH BLACK IRREGULAR COAL GR IEGULAR LAYERS IN A LIGHT GRAY SAMDSTONE MAT ICOAN SULTY SHALE THINLY LAMINATED CROSS	AVEL AND RIX BEDDED.
50	<u>.</u>	-	+			-	+	+	+	+	_		NUM 48.	MERCUS 30° TO 45° AND HIGH ANGLE FRACTURES F 4 TO 52.0 FEET BASE OF WEATHERED ZONE AT 52.0 FEET	KOM -
<i>55</i>			_			_	_		10	00 2:	:5		M10 ZO1	T GRAY SANDSTONE FINE TO MEDIUM GRAINED, SIL ACCOUS; BEDDING INDISTINCT TO THINLY LAMINA IE WITH NUMEROUS IRREGULAR AND VERY THIN CAP RINGS	ATED:
									-	+	-		CDAY	45° FRACTURE AT 55.0 FEET SILTSTONE, THINLY LAMINATED, NUMEROUS MICAC	5
60	1						1		9	9 6	36		LIGHT MIC ZOI	RTINGS T GRAY SANDSTONE FINE TO MEDIUM GRAINED, SIL CACEOUS; BEDDING INDISTINCT TO THINLY LAMINA RE WITH NUMEROUS IRREGULAR AND VERY THIN CAF	TY,
65	;		+			+	+	+	+				PA	RTINGS	4
70	.	-	_			+	+	+	#	1			1	SILTY SHALE, THINLY LAMINATED WITH NUMEROUS CACEOUS SILTSTONE PARTINGS, CROSS BEDDED: OU TO 1/2 INCH SIDERITE NODULE; 30° FRACTURE .2 TO 69.8 FEET	S CCAS IONAL
				_					10	00 9)6				
75	; -									•	•	The state of the s	=	BORING CONTINUED	

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FIGURE 2.5-127

LOG OF BORING A-3 (SHEET 1 OF 5)

f				ΤĘ	Т	I			BORING A-3 CONTINUED	7.10N 7.)
DEPTH (FEET)	OTHER TESTS	SHEAR STRENGTH PSF	ATTERBERG LIMITS LIMITS ATTERBERG LIMITS ATTERBERG LIMITS ATTERBERG LIMITS ATTERBERG LIMITS	FIELD DISTURE CONTENT	DRY DENSITY PCF	WATER LOSS	PERCENT RECOVERED	800		ELEVA! (FEE
75		5	PLASTIC LIMIT %	181018	ă	3~	•		SYMBOLS DESCRIPTIONS 30° FRACTURES SPACED 1 INCH AT 75.6 FEET	
80									LIGHT GRAY SILTY SANDSTONE, NUMEROUS CARBONACEOUS PLANT FOSSILS, SIDERITE NOD'LES AT BASE GRAY SILTSTONE, THI L'Y LAMINATED, IRREGULAR CROSS BEDDING WITH NUMEROUS GRADATIONAL ZONES OF SILTY SAND AND SHALE, OCCASIONAL 1 TO 3 INCH SIDERITE NOD'LE, OCCASIONAL 450	-520
<i>85</i>							100	74	FRACTURE SPACED 1 TO 3.5 FEET	-515
90							-		LIGHT GRAY SILTY SANDSTONE, THILY LAMINATED WITH NUMEROUS CABBONACEOUS PARTING THROUGHOUT; OCCASIONAL SIDERITE NODILE GRAY SILTSTONE, THINLY LAMINATED WITH NUMEROUS MICACEOUS AND FINE SANDY PARTINGS, SOME 30° TO 45° FRACTURES	<i>510</i>
95					-		98	68	AND FINE SANDT PARTINGS, SUITE 50 TO 4.5 THOUSENESS	<i>505</i>
100							_		GRAY SILTY SANDSTONE, INDISTINCT BEDDING; GRADES SHALEY AND CONGLOMERATIC WITH NUMEROUS SIDERITE MODULES BELOW — 98 FEET GRAY SILTSTONE, THINLY LAMINATED, BEDDING GRADES EVEN AND REGULAR	500
105					_		94	76	GRADES TO SILTY SHALE, EVENLY BEDDED WITH NUMEROUS VERY THIN ALTERNATING LAMINATIONS OF MICACEOUS SILT AND SHALE	<i>495</i>
110										490
	,						96	63	BLACK COAL, THIN BEDDED, NUMEROUS TIGHT VERTICAL FRACTURES WITH SOME PYRITE AND CLAY LIGHT COAY CLAY SHALE HIGHLY ERASMENTED WITH NUMEROUS	<i>485</i>
115									LIGHT GRAY CLAY SHALE, HIGHLY FRAGMENTED WITH NUMEROUS SLICKENSIDES THROUGHOUT(SPOON FORMATION) 3 INCH LAYER OF COAL AT 116.7 FEET LIGHT GRAY CLAY SHALE, HIGHLY FRAGMENTED, OCCASIONAL 1/2 TO 1 INCH CARBONACEOUS LAYER	480
120) 		,				100	83	6 INCH LAYER OF COAL AT 121.2 FEET BLACK CARBONACEOUS SHALE, FRAGMENTED, SOME NEAR VERTICAL FRACTURES 15 INCH LAYER OF COAL AT 123.1 FEET GRAY SILTY SHALE, MICACEOUS, THINLY LAMINATED: 450	— <i>475</i>
125									FRACTURES SPACED 2 TO 6 INCHES FROM 124.3 TO 125.0 FEET LIGHT GREENISH-GRAY SILTSTONE, LAMINATED, HIGHLY MICACEOUS SANDY IN ZONES	470
130							98	59	BLACK CARBONACEOUS SHALE, FRAGMENTED, NUMEROUS SLICKENSIDE: ALONG RANDOM PLANES OF WEAKNESS: 45° AND HIGH ANGLE FRACTURES FROM 131.8 TO 132.7 FEET	s <i>465</i>
135	5								7 INCH LAYER OF COAL AT 135.0 FEET DARK GRAYISH-BROWN SHALE, CARBONACEOUS IN ZONES, FRAGMENTE WITH NUMEROUS SLICKENSIDES GRADES NON CARBONACEOUS, SILTY AT 138.5 FEET	
140	}					+	101	0 86	GRADES SILTY AT 141.5 FEET, NUMEROUS INTERBEDDED LAMINATIONS OF MICACEOUS SILTSTONE UP TO 1/10 INCH	45s
14.5	5			+	+				GRADES INCREASINGLY CARBONACEOUS BELOW 145.0 FEET NUMEROUS INTERBEDDED PARTINGS UP TO 1/20 INCH THICK	
150					1				GREENISH-GRAY SILTY SHALE, THINLY LAMINATED, OCCASIONAL MARINE FOSSIL, 45° FRACTURE AT 149.4 FEET (BRAINARD FORMATION) BORING CONTINUED	450
									-	-445
1									PRAIDWOOD STATION	

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FIGURE 2.5-127

LOG OF BORING A-3 (SHEET 2 OF 5)

(FEET)	OTHER Tests	SHEAR STRENGTH PSF	L1	RBERG MITS	FIELD MOISTURE CONTENT	DENSITY	WATER LOSS (LUGEONS)	PERCENT	RQD
150	or	s re	1992	PLASTICITY INDEX	MOISTU	À#G	ž i	و ا	
								97	90
155									
160			ļ		+	-	$\frac{1}{1}$	-	
165					_			100	96
<i>π</i> ω									
170						T	\parallel		
175					-	_	\perp	100	97
100									+
180								100	92
185						+			
190							-		
l								10	99
195			,						
200	 					+	+	H	
20:	5					1	1	lo	0 9
									-
21	1						\dagger	1	8 9
21.	5				+	+	+	\mathbb{H}	
22						_	1	╬	+
									9 3
22	5 L					L	1		1

FIGURE 2.5-127

LOG OF BORING A-3 (SHEET 3 OF 5)

OTHER	SHEAR STRENGTH PSF	ATTERBERG LIMITS ATTERBERG LIMITS ATTERBERG LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMIT LIMI	FIELD MOISTURE CONTENT	DRY DENSITY PCF	WATER LOSS (LUGEONS)	PERCENT RECOVERED	RQD	BORING A-3 CONTINUED SYMBOLS DESCRIPTIONS
<u></u>								
5						99	99	
								INTERBEDDED SILTY LIMESTONE GRADES OUT - DARK GRAY CLAYEY SHALE; HIGHLY FRACTURED WITH NUMEROUS SLICKENSIDES 238.9 TO 239.3 FEET
						100	89	MUMERUUS SCIENCESTUES 230.7 TO 237.7 FEET
5						<u> </u>		
0-						98	97	
5								
-				-	+			
5			-		$\frac{1}{1}$	100	100	
ro						ig		
5						95	95	
0						-		
						100	98	GRADES PYRITIC AT 282.0 FEET MOTTLED LIGHT GRAY TO BUFF DOLOMITIC LIMESTONE, FINE MEDIUM CRYSTALLINE, GRADES FOSSILIFEROUS AND CALCARENITIC IN ZONES, ARGILLACEOUS; THIN BEDDED WI
5	·					-		NUMEROUS IRREGULAR HAIR LINE PARTINGS OF SHALE SPACE 1/4 TO 4 INCHES; OCCASIONAL 1/2 TO 1 INCH VUG WITH CALCITE FILLING, TIGHT; NO FRACTURES OBSERVED IN CO (WISE LAKE - DUNLEITH FORMATIONS)
0L		1,					1	BORING CONTINUED

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FIGURE 2.5-127

LOG OF BORING A-3 (SHEET 4 OF 5)

*~	E#	e E		TERBE LIMIT		ONTENT	SITY	058	ED	
OG (FEET)	OTHER	SHEAR STRENGTH PSF	1.19010 1.1817	PLASTIC LIMIT	PLASTICITY INDEX %	FIELD MOISTURE CONTENT	DRY DENSITY PCF	WATER LOSS (LUGEONS)	PERCENT	RGD
290										
295							_		100	100
300							-			
									1000	100
305									-	
310	<u> </u>					1	<u> </u>			

BORIN	G A-3	CONTINUED	ELEVATION (FEET)
SYMBOLS	DESC	CRIPTIONS	, ,
			305
			300
1/2 II AT 30	NCH ISOLATED 5 FEET	VUG WITH CALCITE CRYSTALS	295
	BORING COMPL ON 9-27-72	ETED AT 308.0 FEET	290
			285

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UPDATED FINAL SAFETY ANALYSIS REPORT

FIGURE 2.5-127

LOG OF BORING A-3 (SHEET 5 OF 5)